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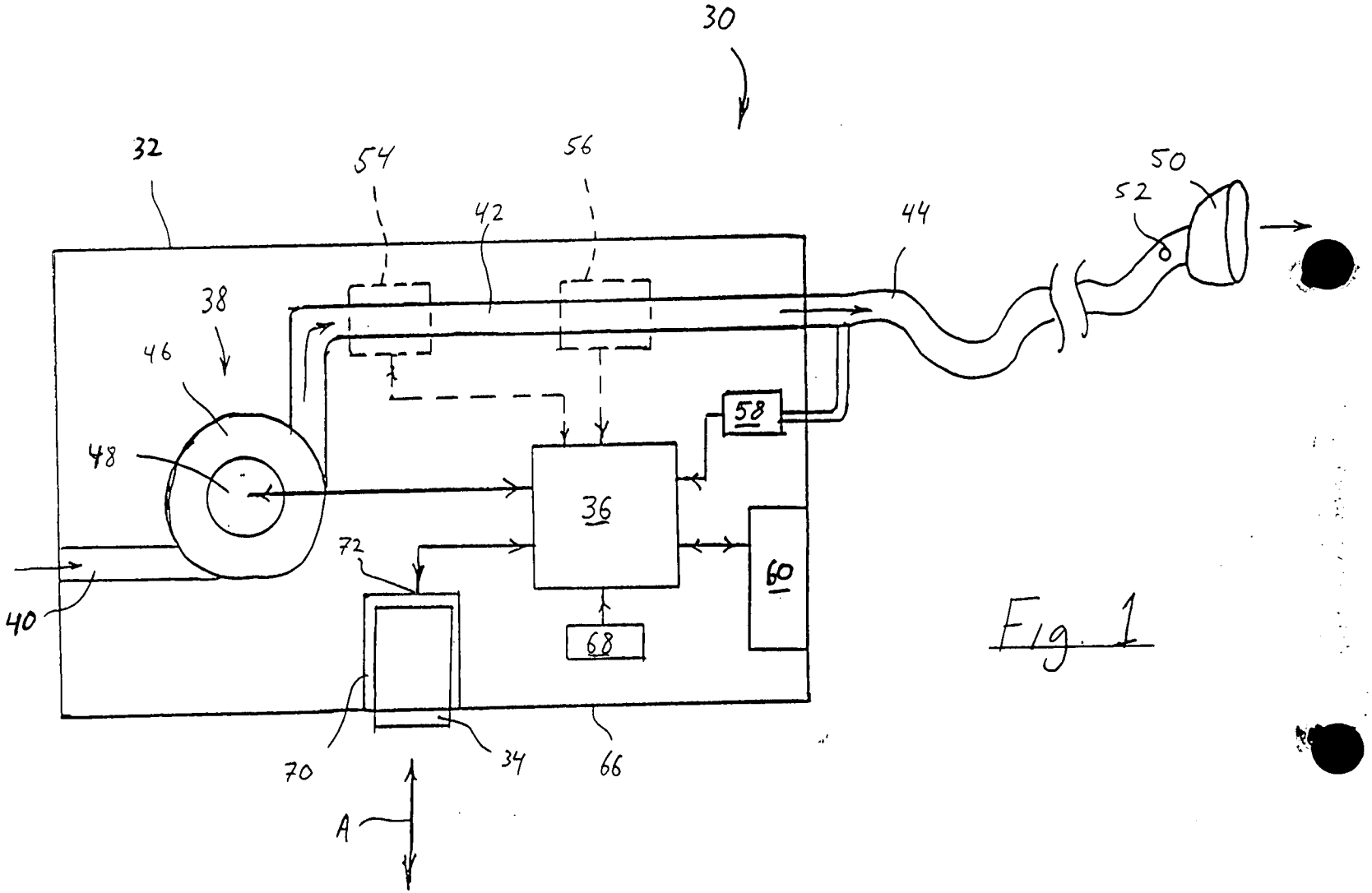


Fig. 1

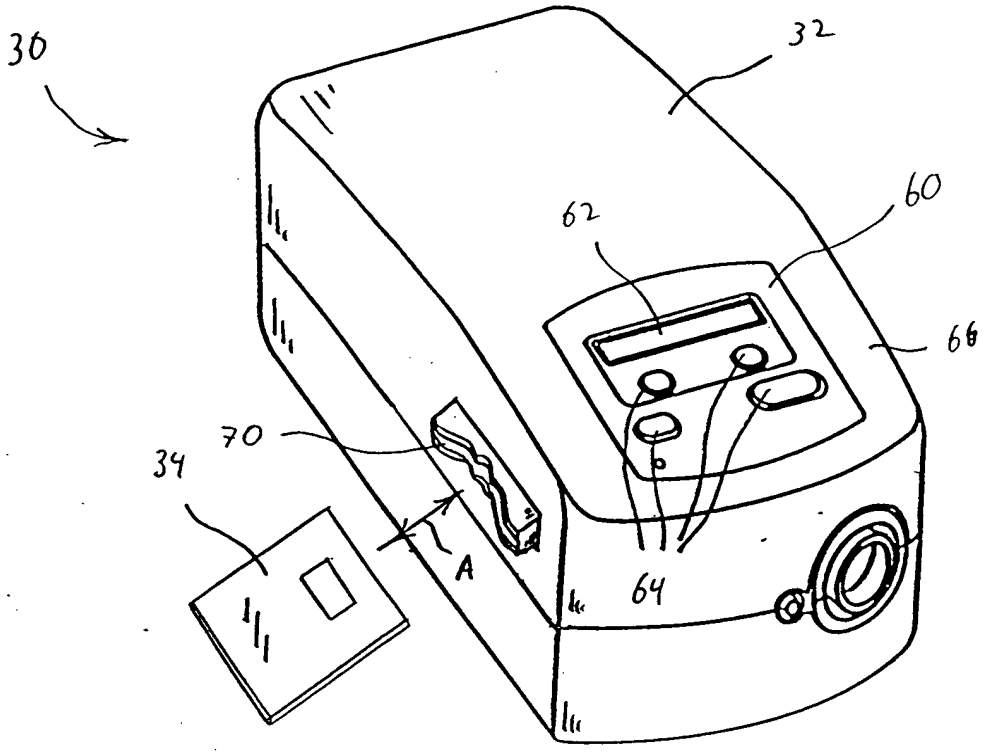


Fig. 2

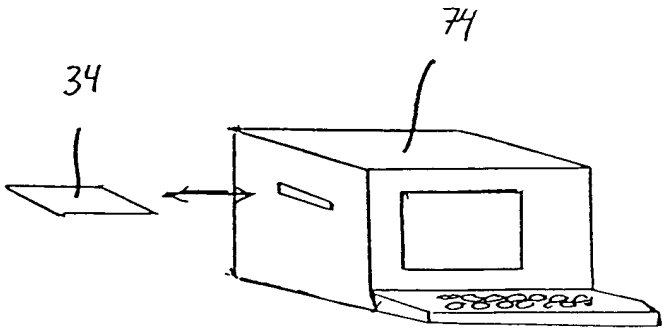
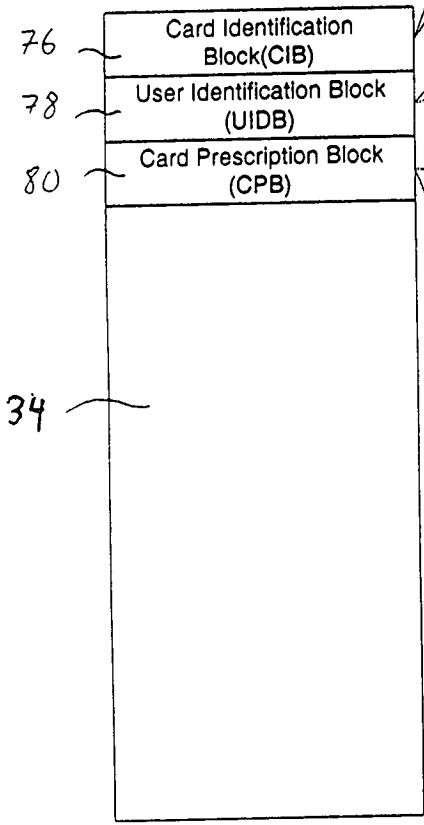


Fig. 3



76

RI Brand	Unique Pattern to Identify a Respironics Card	82
Card Type	Card Type 0 is the standard data/prescription card Additional card type can be added to perform new functions (i.e. a card may contain application code).	84
Format of CIB	Identifies the card layout - Format 0 describes layout defined within	86
Start Addr - UIDB End Addr - UIDB Start Addr - CPB End Addr - CPB	Size of card storage is calculated based on the addresses given. All Addresses on the card are stored MSB, LSB (addresses are 16 bit quantities).	88
Block Check		90

78

Version of UIDB	Version 2 identifies the following layout. NOTE: Version must ALWAYS be located in first byte	92
Personal User ID (i.e SSN)	Unique ID	94
Patient Name Field	25 Chars First Name 25 Chars Last Name	96
Optional data	Null terminated string. Data that can be used by the device to display any message. Version 1 limits this to 32 bytes.	98
Block Check		100

80

Prescription Version	Version 0 defines the following layout. NOTE: Version must ALWAYS be located in first byte	102
Prescription Type	0 : Cpap 1:Auto Titration 2: BiLevel 0xff: No Prescription - present after a format of the card	104
Prescription Format Code	Identifies the format of the prescription.	106
Erase Permission	0: Do Not Erase Prescript 1: Erase	108
Prescription Ready for Use	0: Prescription Erased 1: Prescription Valid for use	110
byte 0 - byte n Described in attached tables (see Prescription tables)	(See Figure. 4)	112
Block Check		114

Prescription Definitions

1129

Cpap Prescription- Format Code 0

Parameter	Scale	Range	Notes	
Cpap Pressure	.1 cmH2O	Unit Type Specific Choice: 3-20 cmH2O	If CPAP Pressure < Min Ramp Pressure, then Min Ramp Pressure = CPAP Pressure.	116
Ramp Shape	NA	0=None 1=Linear		118
Ramp Time	Minutes	0-45		120
Auto On	NA	0=Disable 1=Enable		122
Auto Off	NA	0=Disable 1=Enable		124

Fig. 4

1126

Auto Titration Prescription- Format Code 0

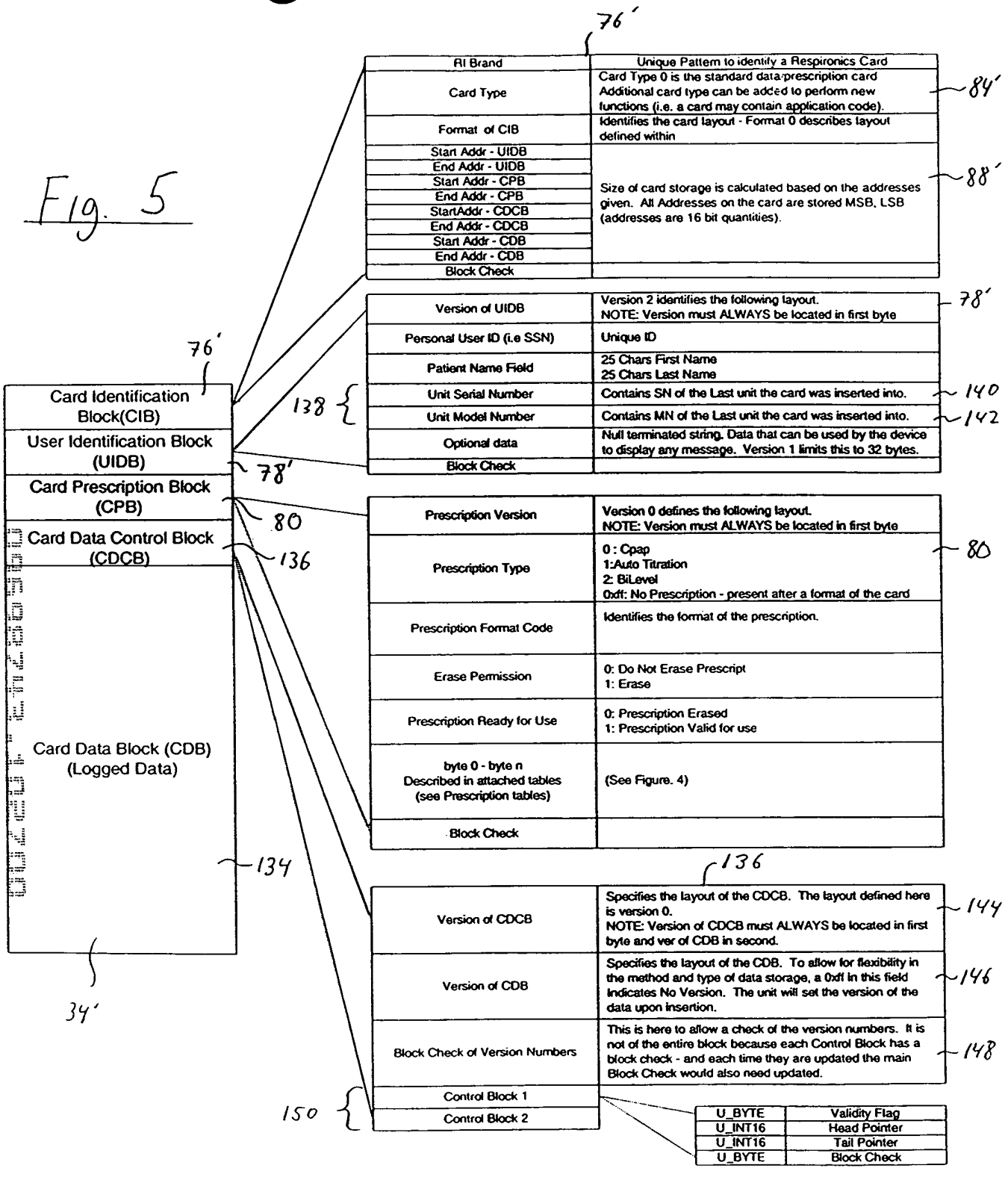
Parameter	Scale	Range	Notes	
Minimum Pressure	.1 cmH2O	Unit Type Specific Choice: 3-Max Pr cmH2O	Min pressure <= Max Pressure	126
Maximum Pressure	.1 cmH2O	Unit Type Specific Choice: Min Pr-20 cmH2O	Max pressure >= Min Pressure	128
Auto On	NA	0=Disable 1=Enable		122
Auto Off	NA	0=Disable 1=Enable		124

112c

BILevel Prescription- Format Code 0

Parameter	Scale	Range	Notes	
IPAP Pressure	.1 cmH2O	Unit Type Specific Choice: Epap-20 cmH2O	IPAP pressure >= EPAP Pressure	130
EPAP Pressure	.1 cmH2O	Unit Type Specific Choice: 3-IPAP cmH2O	EPAP pressure <= IPAP Pressure	132
Ramp Shape	NA	0=None 1=Linear 2=Bi-Level		118'
Ramp Time	Minutes	0-45		120
Auto On	NA	0=Disable 1=Enable		122
Auto Off	NA	0=Disable 1=Enable		124

Fig. 5


76'
Card Identification Block(CIB)
User Identification Block (UIDB)
Card Prescription Block (CPB)
Card Data Control Block (CDCB)
Card Data Block (CDB) (Logged Data)
34'
138
78'
80
136
134
RI Brand
Unique Pattern to identify a Respironics Card
Card Type
Card Type 0 is the standard data/prescription card
Additional card type can be added to perform new functions (i.e. a card may contain application code).
84'
Format of CIB
Identifies the card layout - Format 0 describes layout defined within
Start Addr - UIDB
End Addr - UIDB
Start Addr - CPB
End Addr - CPB
StartAddr - CDCB
End Addr - CDCB
Start Addr - CDB
End Addr - CDB
Size of card storage is calculated based on the addresses given. All Addresses on the card are stored MSB, LSB (addresses are 16 bit quantities).
88'
Block Check
Version of UIDB
Version 2 identifies the following layout.
NOTE: Version must ALWAYS be located in first byte
78'
Personal User ID (i.e SSN)
Unique ID
Patient Name Field
25 Chars First Name
25 Chars Last Name
Unit Serial Number
Contains SN of the Last unit the card was inserted into.
140
Unit Model Number
Contains MN of the Last unit the card was inserted into.
142
Optional data
Null terminated string. Data that can be used by the device to display any message. Version 1 limits this to 32 bytes.
Block Check
Prescription Version
Version 0 defines the following layout.
NOTE: Version must ALWAYS be located in first byte
Prescription Type
0 : Cpap
1:Auto Titration
2: BiLevel
0xff: No Prescription - present after a format of the card
80
Prescription Format Code
Identifies the format of the prescription.
Erase Permission
0: Do Not Erase Prescript
1: Erase
Prescription Ready for Use
0: Prescription Erased
1: Prescription Valid for use
byte 0 - byte n
Described in attached tables
(see Prescription tables)
(See Figure. 4)
Block Check
136
Version of CDCB
Specifies the layout of the CDCB. The layout defined here is version 0.
NOTE: Version of CDCB must ALWAYS be located in first byte and ver of CDB in second.
144
Version of CDB
Specifies the layout of the CDB. To allow for flexibility in the method and type of data storage, a 0xff in this field indicates No Version. The unit will set the version of the data upon insertion.
146
Block Check of Version Numbers
This is here to allow a check of the version numbers. It is not of the entire block because each Control Block has a block check - and each time they are updated the main Block Check would also need updated.
148
Control Block 1
Control Block 2
150
U_BYTE
Validity Flag
U_INT16
Head Pointer
U_INT16
Tail Pointer
U_BYTE
Block Check

0220T-EP2869960

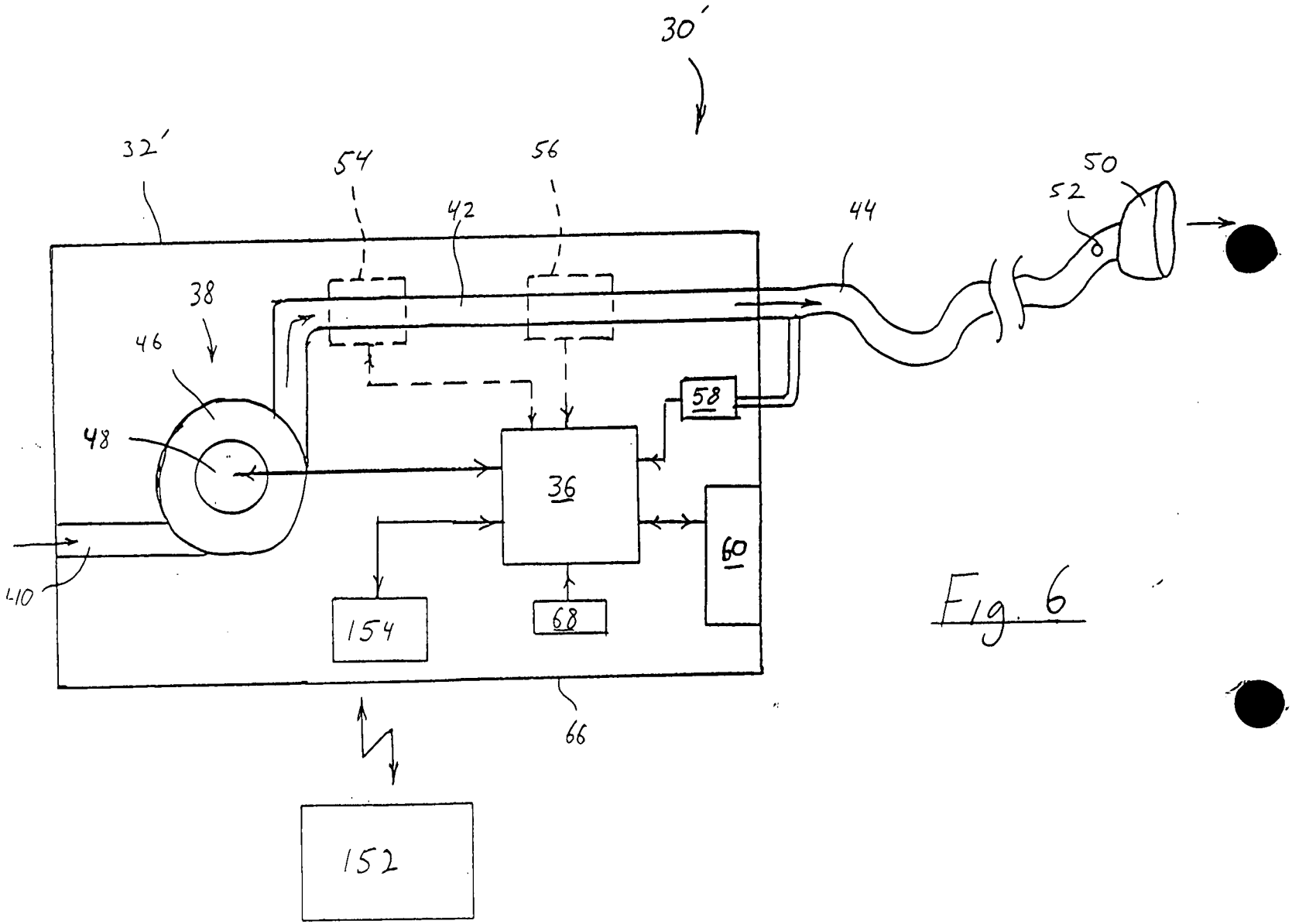


Fig. 6

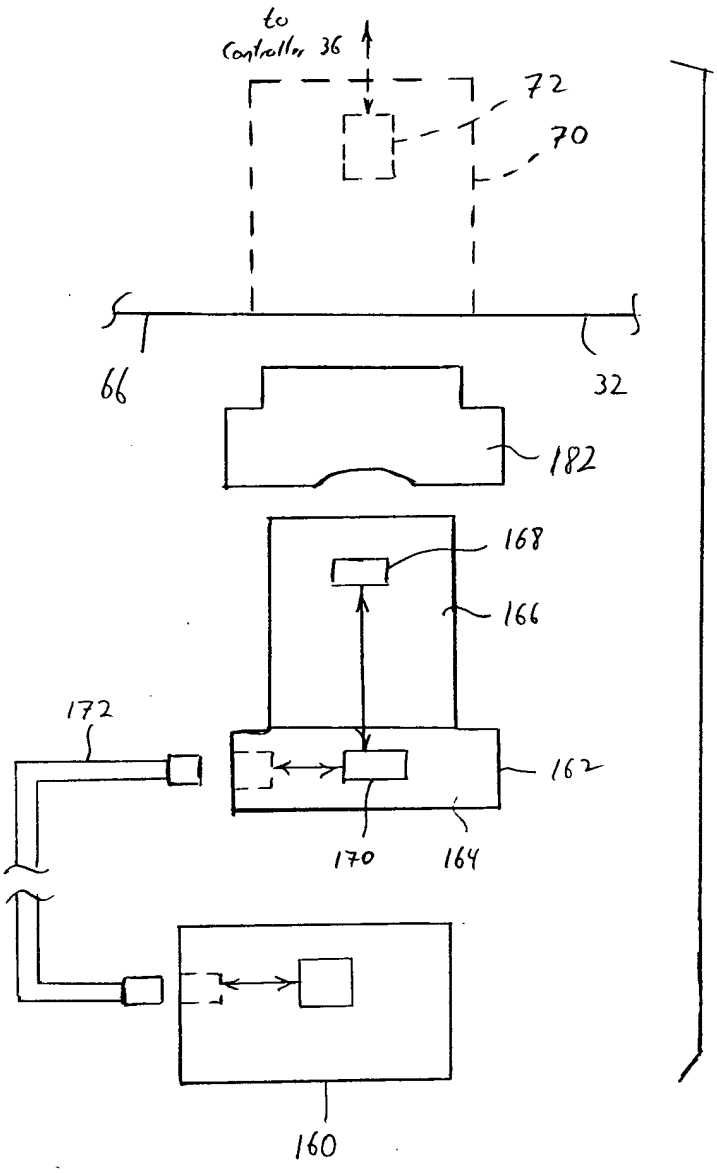


Fig. 7

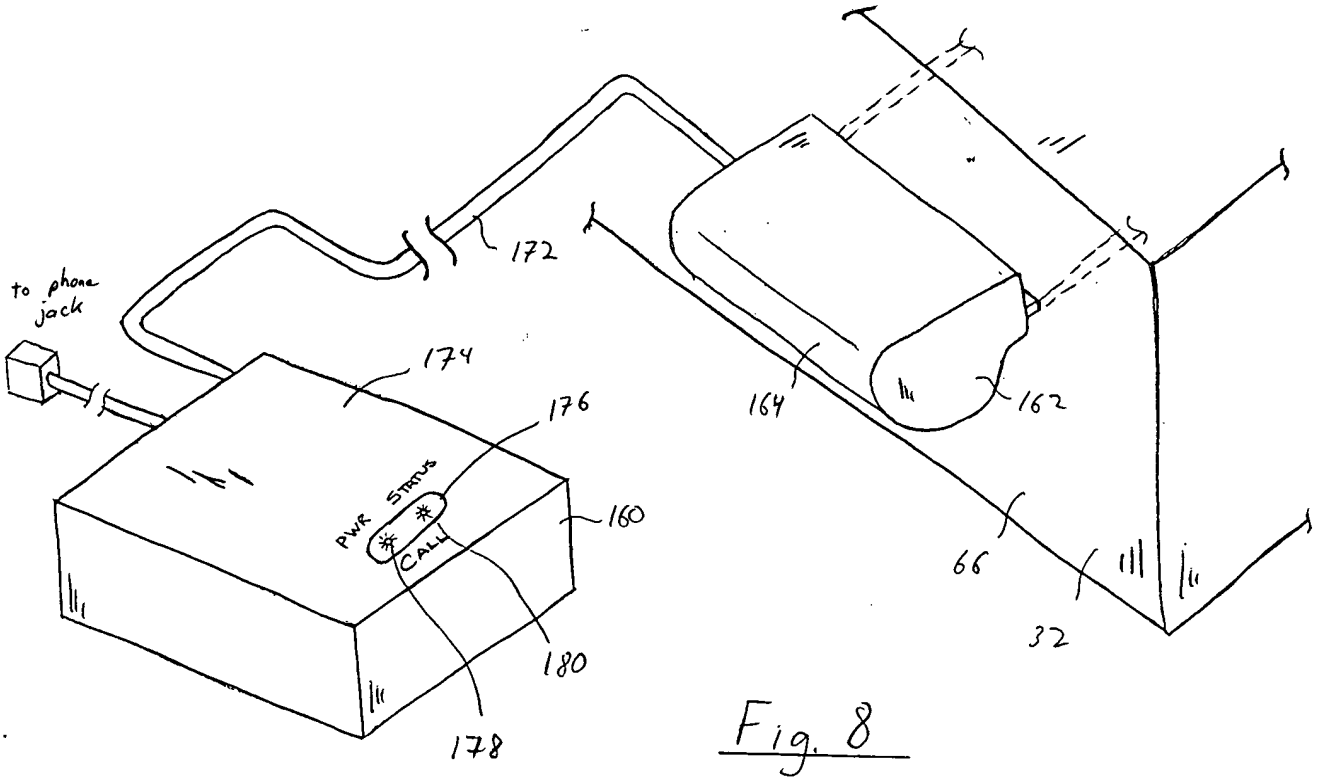

to phone jack
172
174
176
PWR
STATUS
CALL
160
180
178
164
162
66
32

Fig. 8

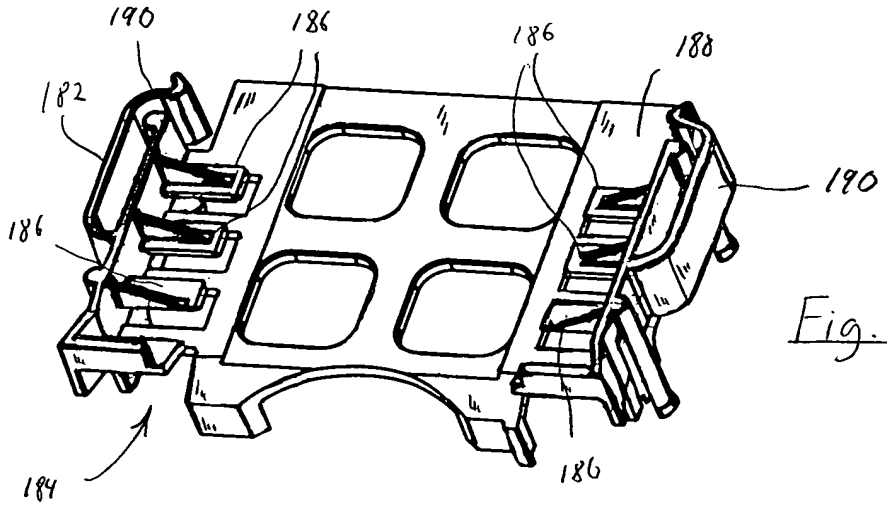

190
186
186
188
182
190
186
184
186

Fig. 9